

WHAT IS CLAIMED IS:

1. A video recording method comprising:  
receiving a video signal or an audio signal;  
encoding received the video signal or the audio  
5 signal into a predetermined form; and  
operating if two consecutive recording operations  
are set, to record the two recording operations so as  
to record a period from the start of the earlier first  
recording to the end of the succeeding second recording  
10 as one recording operation, and to record an identifier  
that can identify the first recording and the second  
recording to manage the end of the first recording and  
the start of the second recording, in a predetermined  
area of the recording medium.
- 15 2. A video recording method according to claim 1,  
wherein  
in the recording, if two consecutive recording  
operations are set in the reservation information, the  
recording when a first recording is ended, and starting  
20 a second recording with an identifier that can identify  
the first recording and the second recording.
3. A video recording method according to claim 1,  
wherein  
the identifier is an entry point indicative of a  
25 position of a start time of the second recording for  
titles consecutively recorded from a period from the  
start time of the first recording and the end time of

the second recording.

4. A video recording method according to claim 1,  
wherein

5 the identifier includes the management information  
signal and encoded signal for identifying the first  
recording and the second recording, and recorded on a  
predetermined area in the recording medium.

5. A video recording method according to claim 1,  
wherein

10 when recording the received and encoded signal in  
the recording medium together with the identifier,  
retaining the signal and information using reservation  
information for retaining a start and end of recording  
in the recording medium executed by the recording means  
15 as well as recording conditions.

6. A video recording method according to claim 5,  
wherein

if two consecutive recording operations are set,  
the file management information to be recorded in a  
20 predetermined area of the recording medium for each  
recording.

7. A video recording method according to claim 5,  
wherein

25 the file management information includes at least  
one of a recording start position information and  
recording end position information.

8. A video recording method according to claim 5,

wherein

the file management information includes virtual positional information referring only to a required to be recorded in a predetermined area of the recording medium for each recording.

9. A video recording method according to claim 5, wherein

if recording has been executed for a period contained in the reservation information of the second recording since the start time contained in the reservation information for the first recording, then after the recording, a first play list referring to a reservation section for the first recording and a second play list referring to a reservation section for the second recording are created.

10. A video recording method according to claim 5, wherein

operating if two consecutive recording operations are set, to start the second recording after the first recording has been ended, while recording an identifier that can identify the earlier first recording and the succeeding second recording, so that the two recording operations maintain the same recording conditions and operations for the conditions.

11. A video recording method according to claim 10, wherein

operating if two consecutive recording operations

are set, to start the second recording after the first recording has been ended, while maintaining the recording means in a recording state.

12. A video recording method according to claim 5,  
5 wherein

operating if the two recording operations have the same recording conditions, to start a second recording after a first recording has been ended, while recording an identifier that can identify the first recording and  
10 the second recording, in a predetermined recording position.

13. A video recording method according to claim 5, wherein

in the recording, if two consecutive recording  
15 operations are set in the reservation information, comparing the recording conditions for the two recording operations, and if of the recording channel conditions for the signal each receive differs between the two recording operations each other, pausing the  
20 recording when the earlier recording is ended, and starting the second reading after recording an identifier that can identify the earlier recording and the succeeding second recording.

14. A video recording and reproducing apparatus  
25 comprising:

a signal receiving section which converts a video signal or an audio signal;

an encode section which encodes the signal received by the signal receiving section into a predetermined form;

5 a recording device which records the encoded signal encoded by the encode section and a management information signal for the encoded signal, in a recording medium;

10 a reproducing device which reproduces a video signal or an audio signal on the basis of the encoded signal and the management information signal for the encoded signal which are recorded in the recording medium;

15 a recording reservation information retaining device which retains recording reservation information including a start and end of recording of the video or the audio signal as well as recording conditions in the recording medium which recording is executed by the recording device; and

20 a recording control device which operates if a first and second pieces of recording reservation information in which a recording end time and a recording start time, respectively, that are consecutive are set, to start second recording based on the second piece of recording reservation information and  
25 including recording of an identifier that can identify the first recording and the second recording after first recording based on the first piece of recording

reservation information has been ended.

15. A video recording method according to claim 14, wherein

5 the identifier is an entry point indicative of a position of a start time of the second recording for titles consecutively recorded from a period from the start time of the first recording and the end time of the second recording.

10 16. A video recording method according to claim 14, wherein

the identifier includes the management information signal and encoded signal for identifying the first recording and the second recording, and recorded on a predetermined area in the recording medium.

15 17. A video recording and reproducing apparatus comprising:

..... a signal receiving section which converts a video .....  
signal or an audio signal;

20 an encode section which encodes the signal received by the signal receiving section into a predetermined form;

25 a recording device which records the encoded signal encoded by the encode section and a management information signal for the encoded signal, in a recording medium;

a recording medium managing device which controls recording of the management information signal and the

encoded signal in the recording medium which recording is executed by the recording device;

5 a reproducing device which reproduces a video or an audio signal on the basis of the encoded signal and the management information signal for the encoded signal which are recorded in the recording medium;

10 a recording reservation information retaining device which retains recording reservation information including a start and end of recording of the video or the audio signal as well as recording conditions in the recording medium which recording is executed by the recording device; and

15 a recording control device which operates if a first and second pieces of recording reservation information in which a recording end time and a recording start time, respectively, that are consecutive are set, to start second recording based on the second piece of recording reservation information after first recording based on the first piece of recording reservation information has been ended, and to record an information signal indicative of the end of the first recording and the start of the succeeding second recording, in an information recording section of the management information signal recorded by the recording medium managing device in the recording medium.

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18. A video recording and reproducing apparatus according to claim 17, wherein

the recording control device operating if two consecutive recording operations are set in the reservation information retaining means, to record the two recording operations so as to record a period from the start of the earlier first recording to the end of the succeeding second recording as one recording operation, and to record an identifier that can identify the first recording and the second recording to manage the end of the first recording and the start of the second recording, in a predetermined area of the recording medium through the recording medium control means.

19. A video recording and reproducing apparatus according to claim 17, wherein

the recording control device operating if two consecutive recording operations are set in the reservation information retaining means, to start the second recording after the first recording has been ended, while recording an identifier that can identify the earlier first recording and the succeeding second recording, so that the two recording operations maintain the same recording conditions and operations for the conditions.

20. A video recording and reproducing apparatus according to claim 17, wherein

the recording control device operating when in the recording, if two consecutive recording operations are



set in the reservation information, comparing the recording conditions for the two recording operations, and if of the recording channel conditions for the signal each receive differs between the two recording operations each other, pausing the recording when the  
5 earlier recording is ended, and starting the second reading after recording an identifier that can identify the earlier recording and the succeeding second recording.